according to the Hazardous Products Regulations



Opteon[™] YF (R-1234yf) Refrigerant

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SECTIO	N 1. IDENTIFICATION			
Proc	duct name	:	Opteon™ YF (R-1	1234yf) Refrigerant
SDS	S-Identcode	:	130000043292	
Othe	er means of identification	:	No data available	
Mar	ufacturer or supplier's o	deta	ails	
Con	Company name of supplier		The Chemours Ca	anada Company
Add	Address		151 Bloor Street West - 12th Floor Toronto, ON M5S 1S4 Canada	
Tele	phone	:	1-844-773-CHEM (2436)	
Eme	Emergency telephone		1-866-595-1473 (24 hours)	
Rec	ommended use of the c	hen	nical and restriction	ons on use
Rec	ommended use	:	Heat transfer fluid Refrigerant Formulation of pre	-
Res	trictions on use	:	For professional a	and industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable gases	:	Category 1B
Gases under pressure	:	Liquefied gas
Simple Asphyxiant	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H221 Flammable gas. H280 Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
Precautionary Statements	:	Prevention:

according to the Hazardous Products Regulations



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		•	ay from heat, hot surfaces, sparks, open flames on sources. No smoking.	
		stopped safely.	gas fire: Do not extinguish, unless leak can be f leakage, eliminate all ignition sources.	
		Storage: P410 + P403 Protect from sunlight. Store in a well-ventilate place.		

Other hazards

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	2,3,3,3-Tetrafluoropropene
CAS-No.	:	754-12-1
Common Name/Synonym	:	No data available

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)				
2,3,3,3- Tetrafluoropropene#	No data availa- ble	754-12-1	>= 99.5 - <= 100				
# Voluntarily-disclosed substance							

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek vice immediately. When symptoms persist or in all cases of doubt s advice.	
If inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	
In case of skin contact	Thaw frosted parts with lukewarm water. Do not r area. Get medical attention immediately.	ub affected
In case of eye contact	Get medical attention immediately.	

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lf sw	allowed	:	Ingestion is not co	onsidered a potential route of exposure.
	t important symptoms effects, both acute and yed	:	abuse are Cardiac sensitiza Anaesthetic effec Light-headedness Dizziness confusion Lack of coordinat Drowsiness Unconsciousness May displace oxy Gas reduces oxy	potentially related to misuse or inhalation tion ts s
Prot	ection of first-aiders	:	No special preca	utions are necessary for first aid responders.
Note	es to physician	:	techolamine drug	ble disturbances of cardiac rhythm, ca- s, such as epinephrine, that may be used in rgency life support should be used with spe-

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Vapors may form flammable mixture with air Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Hazardous combustion prod- ucts	:	Hydrogen fluoride Fluorine compounds Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

according to the Hazardous Products Regulations



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	Special protective equipment for fire-fighters		 Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment. 	
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Only trained per Remove all sou Avoid skin conta Ventilate the are Follow safe han	act with leaking liquid (danger of frostbite).
Envir	onmental precautions	: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.		leakage or spillage if safe to do so.
	ods and materials for ainment and cleaning up	:	Suppress (knoc jet. Local or nationa sal of this mater ployed in the cle which regulation Sections 13 and	ea. hols should be used. k down) gases/vapors/mists with a water spray al regulations may apply to releases and dispo- rial, as well as those materials and items em- eanup of releases. You will need to determine his are applicable. d 15 of this SDS provide information regarding hational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Use equipment rated for cylinder pressure. Use a backflow preventative device in piping. Close valve after each use and when empty.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventila- tion.
Advice on safe handling	:	Avoid breathing gas. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Wear cold insulating gloves/ face shield/ eye protection. Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point. Prevent backflow into the gas tank.

according to the Hazardous Products Regulations



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		zardous back flow Use a pressure re- to lower pressure Close valve after or force fit connect Prevent the intrus Never attempt to Do not drag, slide Use a suitable ha Keep away from h other ignition sour Take precautiona	educing regulator when connecting cylinder (<3000 psig) piping or systems. each use and when empty. Do NOT change ctions. ion of water into the gas tank. lift cylinder by its cap. or roll cylinders. nd truck for cylinder movement. heat, hot surfaces, sparks, open flames and
Conditions for safe storage	:	vent falling or bein Separate full cont Do not store near Avoid area where Keep in properly I Keep tightly close Keep in a cool, we Keep away from of Store in accordan	ainers from empty containers. combustible materials. salt or other corrosive materials are present. abeled containers. d. ell-ventilated place.
Materials to avoid	:	Self-reactive subs Organic peroxides Oxidizing agents Flammable liquids Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating subs Substances and r flammable gases Explosives Very acutely toxic Acutely toxic subs	8
Recommended storage tem- perature	:	< 52 °C	
Storage period	:	> 10 y	
Further information on stor- age stability	:	The product has a	an indefinite shelf life when stored properly.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust venti- lation.
Personal protective equipr	nent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the re- commended guidelines, use respiratory protection.
Filter type	:	Organic gas and low boiling vapor type
Hand protection Material	:	Low temperature resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to che- micals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the pro- duct. Change gloves often!
Eye protection	:	Wear the following personal protective equipment: Chemical resistant goggles must be worn. Face-shield
Skin and body protection	:	Wear the following personal protective equipment: If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.
Protective measures	:	Wear cold insulating gloves/ face shield/ eye protection.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the wor- king place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Liquefied gas

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Colo	r	:	colorless, clear	
Odo	r	:	slight, ether-like	
Odo	r Threshold	:	No data available	
рH		:	No data available)
Melt	ing point/freezing point	:	-152.2 °C	
Initia rang	al boiling point and boiling le	:	-29 °C	
Flas	h point	:	Not applicable	
Eva	poration rate	:	Not applicable	
Flam	nmability (solid, gas)	:	Flammable	
Burr	ning rate	:	15 mm/s	
Self-	ignition	:	The substance o	mixture is not classified as pyrophoric.
	er explosion limit / Upper mability limit	:	Upper flammabili 12.3 %(V) Method: ASTM E	
	er explosion limit / Lower mability limit	:	Lower flammabili 6.2 %(V) Method: ASTM E	
Vapo	or pressure	:	5,800 hPa (20 °C	;)
Rela	tive vapor density	:	4 (Air = 1.0)	
Den	sity	:	0.0048 g/cm³ (20 Vapor density	°C)
	bility(ies) Vater solubility	:	0.1982 g/l (24 °C	C)
	ition coefficient: n- nol/water	:	log Pow: 2 (25 °C	\$)
Auto	ignition temperature	:	405 °C	
Dec	omposition temperature	:	No data available)

according to the Hazardous Products Regulations



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	sity scosity, kinematic sive properties		Not applicable Not explosive	
Oxidiz	zing properties	: 1	The substance o	r mixture is not classified as oxidizing.
Minim	num ignition energy	: 5	5 - 10 J	
Partic	le size	: 1	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.
Possibility of hazardous reac- tions	:	Vapors may form flammable mixture with air Can react with strong oxidizing agents. Flammable gas.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Incompatible with acids and bases. Incompatible with oxidizing agents. Oxygen Peroxides peroxide compounds Powdered metals
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Eye contact

Acute toxicity

Not classified based on available information.

Components:

2,3,3,3-Tetrafluoropropene:

Acute inhalation toxicity

: LC50 (Rat): > 405800 ppm Exposure time: 4 h

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		Test atmosphere Method: OECD 1	: gas ēest Guideline 403
		No observed adv Test atmosphere Remarks: Cardia	
		Lowest observed 120000 ppm Test atmosphere Remarks: Cardia	
		Cardiac sensitisa Test atmosphere Remarks: Cardia	
	corrosion/irritation	ble information.	
	ponents:		
2,3,3	,3-Tetrafluoropropene:		
Resu	llt	: No skin irritation	
	bus eye damage/eye irr classified based on availa		
<u>Com</u>	ponents:		
2,3,3 Resu	,3-Tetrafluoropropene:	: No eye irritation	
Resp	biratory or skin sensitiz	ation	
	sensitization classified based on availa	ble information.	
	biratory sensitization	ble information	
	lassified based on availa ponents:		
	, 3-Tetrafluoropropene: es of exposure Ilt	: Skin contact : negative	
Not c	n cell mutagenicity classified based on availa ponents:	ble information.	
	,3-Tetrafluoropropene:	_ . _ -	rick reverse mutation appay (AMES)

according to the Hazardous Products Regulations



/ersion 0.0	Revision Date: 11/29/2023	SDS Number:Date of last issue: 04/18/20231335637-00053Date of first issue: 02/27/2017
		Method: OECD Test Guideline 471 Result: positive
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Genc	otoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: inhalation (gas) Method: OECD Test Guideline 474 Result: negative
		Test Type: In vivo mammalian alkaline comet assay Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 489 Result: negative
		Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 474 Result: negative
	n cell mutagenicity - ssment	: Weight of evidence does not support classification as a gerr cell mutagen.
Not c	inogenicity lassified based on avai	able information.
	ponents:	
2,3,3 Resu	, 3-Tetrafluoropropene Ilt	: negative
Carci ment	inogenicity - Assess-	: Weight of evidence does not support classification as a car- cinogen
Repr	oductive toxicity	
Not c	lassified based on avai	able information.
<u>Com</u>	ponents:	
	,3-Tetrafluoropropene ts on fertility	: : Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 416 Result: negative

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Effect	ts on fetal development	:	Test Type: Prenatal development toxicity study (teratogenic Species: Rat Application Route: inhalation (gas) Method: OECD Test Guideline 414 Result: negative	
Repro sessn	oductive toxicity - As- nent	:	: Weight of evidence does not support classification for reproductive toxicity, No effects on or via lactation	
	-single exposure			
	displace oxygen and cau	ise i	rapid suffocation.	
<u>Com</u>	<u>ponents:</u>			
	3-Tetrafluoropropene:			
	es of exposure ssment	:	 inhalation (gas) No significant health effects observed in animals at conditions of 20000 ppmV/4h or less 	
STOT	-repeated exposure			
Not c	lassified based on availa	ble	information.	
Com	oonents:			
2,3,3,	3-Tetrafluoropropene:			
	es of exposure ssment	:	 inhalation (gas) No significant health effects observed in animals at con tions of 250 ppmV/6h/d or less. 	
Repe	ated dose toxicity			
Com	oonents:			
2,3,3,	3-Tetrafluoropropene:			
Speci NOAE LOAE Applic	es EL EL cation Route sure time	: : : : : : : : : : : : : : : : : : : :	Rat, male and fer 50000 ppm >50000 ppm inhalation (gas) 13 Weeks OECD Test Guide	

Aspiration toxicity

Not classified based on available information.

Components:

2,3,3,3-Tetrafluoropropene:

No aspiration toxicity classification

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2,3,3,3-Tetrafluoropropene:

Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): > 197 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Selenastrum capricornutum (green algae)): > 75 mg/l Exposure time: 3 d Method: OECD Test Guideline 201

Persistence and degradability

Components:

2,3,3,3-Tetrafluoropropene:		
Biodegradability	:	Result: Not readily biodegradable. Method: OECD Test Guideline 301F

Bioaccumulative potential

Components:

2,3,3,3-Tetrafluoropropene:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Partition coefficient: n- octanol/water	:	log Pow: 2 (25 °C)
Mobility in soil		
No data available		
Other adverse effects		
No data available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.

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Conta	aminated packaging	handling site fo Empty pressure Empty containe Do not pressuri pose such cont of ignition. The	ers should be taken to an approved waste ir recycling or disposal. e vessels should be returned to the supplier. ers retain residue and can be dangerous. ize, cut, weld, braze, solder, drill, grind, or ex- ainers to heat, flame, sparks, or other sources y may explode and cause injury and/or death. e specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels	:	UN 3161 LIQUEFIED GAS, FLAMMABLE, N.O.S. (2,3,3,3-Tetrafluoropropene) 2.1 Not assigned by regulation 2.1			
Environmentally hazardous	•	no			
UN/ID No. Proper shipping name	:	UN 3161 Liquefied gas, flammable, n.o.s. (2,3,3,3-Tetrafluoropropene)			
Class Packing group Labels Packing instruction (cargo	:	2.1 Not assigned by regulation Flammable Gas 200			
aircraft) Packing instruction (passen- ger aircraft)	:	Not permitted for transport			
IMDG-Code					
UN number Proper shipping name	:	UN 3161 LIQUEFIED GAS, FLAMMABLE, N.O.S. (2,3,3,3-Tetrafluoropropene)			
Class	:	2.1			
Packing group Labels	:	Not assigned by regulation 2.1			
EmS Code	:	2.1 F-D, S-U			
Marine pollutant	:	no			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					

Not applicable for product as supplied.

Domestic regulation

TDG		
UN number	:	UN 3161
Proper shipping name	:	LIQUEFIED GAS, FLAMMABLE, N.O.S. (2,3,3,3-Tetrafluoropropene)
Class	:	2.1

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Packir Labels ERG (:	Not assigned b 2.1 115	y regulation

: no

Special precautions for user

Marine pollutant

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

SECTION 16. OTHER INFORMATION

Opteon[™] and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

Chemours [™] and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recom-

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mendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumu- lative; WHMIS - Workplace Hazardous Materials Information System								
comp	es of key data used to ile the Material Safety Sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/				
Revis	ion Date	:	11/29/2023					

: mm/dd/yyyy

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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Date format